YU

76. (Amended). The test kit of claim 75, wherein the polypeptide is attached to a solid phase.

í 1

80. (Amended). A method for producing antibodies which specifically bind to BS322 antigen, comprising:

administering to an individual an isolated immunogenic polypeptide in an amount sufficient to elicit an immune response,

wherein said immunogenic polypeptide is selected from the group consisting of: SEQ ID NO: 24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:27, and SEQ ID NO:28.

REMARKS

Reconsideration of the above-identified application in view of the following remarks is respectfully requested.

Drawings

The Examiner requested that Applicants respond to the objections to the Drawings set forth in PTO-948. Applicants mailed corrected drawings in the above-identified application on July 23, 2002.

Rejection of Claims 52-61, 70 and 77-81 Under 35 U.S.C. Sections 101 and 112, First Paragraph

Claims 52-61, 70 and 77-81 are rejected under 35 U.S.C. Sections 101 and 112, first paragraph, for the reasons contained in the previous Office Action.

BS322 is a transcription factor in breast tissue. As discussed in Applicants last Amendment, an alignment between BS322 and NY-BR-1 was provided along with a publication in *Cancer Research* (Jager, D., et al., *Cancer Research*, 61:2055-2061 (2001)). The publication in *Cancer* Research showed that NY-BR-1 is expressed in breast cancer tissues. Applicants argued that since BS322 and NY-BR-1 are the same

molecule that BS322 clearly possessed utility as a diagnostic tool for the detection of breast cancer.

In the present Office Action, the Examiner raised a number of questions regarding the sequence alignment between NY-BR-1 and BS322 provided in Applicants last Amendment. Specifically, the Examiner stated that the sequence alignment between NY-BR-1 and BS322 did not indicate what corresponding sequence of BS322 was actually used to produce the alignment. The Examiner also questioned the difference in length between NY-BR-1 and BS322 and the percentage identity over the entire length of the sequences. Applicants herewith enclose the declaration of Dr. Edward Granados. Applicants submit that this declaration answers many of the questions raised by the Examiner in the Office Action.

The Examiner also states that Applicants have not provided a comparison of the polypeptide sequences of SEQ ID NOS:25-28 with the polypeptide sequence of NY-BR-1. Applicants submit that this issue has also been addressed in the declaration of Dr. Granados. As the Examiner is already aware, SEQ ID NO:9 is the consensus sequence for BS322. It contains 3 open reading frames. As shown by the alignments provided, BS322 and N4-BR-1 are highly related sequences and therefore would have similar utility to detect breast cancer.

Thereupon, in view of the Declaration of Dr. Granados and the arguments provided in Applicants previous Amendment, Applicants submit that this rejection should be withdrawn.

Rejection of Claims 52-61 Under 35 U.S.C. Section 112, First Paragraph
Claims 52-61 are rejected under 35 U.S.C. Section 112, First Paragraph as

containing subject matter that was not described in the specification in such a way as to reasonably convey to one skilled in the art that the inventor, at the time the application was filed, had possession of the claimed invention.

In view of the amendments to claims 52, 55, 57, 60 and 61 to remove the percent homology language, Applicants submit that this rejection has now been rendered moot and should be withdrawn.

Rejection of claims 62-69, 72-76 and 80 Under 35 U.S.C. Section 112, Second Paragraph as being indefinite.

Claims 62-69, 72-76 and 80 are rejected under 35 U.S.C. Section 112, Second Paragraph as being indefinite.

Applicants have amended claims to clarify that the isolated polypeptides according to SEQ ID NO:24-28 are not isolated polynucleotides or DNA molecules. Applicants thank the Examiner for pointing out this discrepancy. In view of the aforementioned arguments, Applicants submit that this rejection should be withdrawn.

CONCLUSION

In view of the aforementioned amendments and arguments, Applicants submit that the above-identified claims are now in condition for allowance.

23492

ABBOTT LABORATORIES

Telephone: (847) 935-7550 Facsimile: (847) 938-2623

Wood, Phillips, Katz, Mortimer & Clark 500 West Madison Street

Suite 3800 Chicago, IL 60662-2511

Phone: (312) 876-2109 Fax: (312) 876-2020 Respectfully submitted, P.A. Billing-Medel, et al.

Mimi C. Goller

Registration No. 39,046 Attorney for Applicants

Lisa V. Mueller

Registration No. 38,978 Attorney for Applicants

Version with Markings to Show Changes Made

- 52. (Twice Amended). A purified polypeptide[, having at least 95% identity over the entire length of a] NO: 24, SEQ[UENCE] ID NO:25, SEQ[UENCE] ID NO:26, SEQ[UENCE] ID NO:27, and SEQ[UENCE] ID NO:28.
- 55. (Twice Amended). A test kit for determining if a BS322 antigen or anti-BS322 antibody is present in a test sample, said kit comprising:

a container containing at least one BS322 polypeptide having [at least 95% identity over the entire length of] a sequence selected from the group consisting of <u>SEQ ID NO: 24</u>, SEQ[UENCE] ID NO:25, SEQ[UENCE] ID NO:26, SEQ[UENCE] ID NO:27, [and] SEQ[UENCE] ID NO:28.

- 57. (Amended). A method for detecting at least one antibody specific for a BS322 antigen in a test sample suspect of containing the antibody, said method comprising:
- (a) contacting the test sample with a BS322 polypeptide for a time and under conditions sufficient to allow antigen/antibody complexes to form;

wherein said BS322 polypeptide contains at least one BS322 epitope derived from an amino acid sequence [having at least 90% identity over the entire length of a sequence] selected from the group consisting of SEQ ID NO[S]:24[-28] SEQ ID NO: 25, SEQ ID NO: 26, SEQ ID NO: 27, and SEQ ID NO: 28 and

- (b) detecting the presence of said complexes as an indication of the antibody specific for the BS322 antigen.
- 60. (Amended). A method for producing antibodies which specifically bind to a BS322 antigen, said method comprising:

administering to an individual an isolated immunogenic polypeptide in an amount sufficient to elicit an immune response,

wherein said immunogenic polypeptide comprises at least one BS322 epitope and has [at least 90% identity over the entire length of] a sequence selected from the group consisting of: SEQ ID NO[S]:24[-28] SEQ ID NO: 25, SEQ ID NO: 26, SEQ ID NO: 27, and SEQ ID NO: 28.

61. (Amended). A method for producing antibodies which specifically bind to a BS322 antigen, comprising:

administering to an individual a plasmid,

wherein said plasmid comprises a sequence which encodes at least one BS322 epitope derived from a polypeptide having an amino acid sequence [with least 90% identity over the entire length of a sequence] selected from the group consisting of SEQ ID NO[S]:24[-28] SEQ ID NO: 25, SEQ ID NO: 26, SEQ ID NO: 27, and SEQ ID NO: 28.

- 62. (Amended). A purified [polynucleotide] <u>polypeptide</u>, selected from the group consisting of: <u>SEQ ID NO:24</u>, SEQ ID NO[S]:25[-28], <u>SEQ ID NO: 26</u>, <u>SEQ ID NO: 27</u>, and SEQ ID NO: 28.
- 63. (Amended). The [polynucleotide] <u>polypeptide</u> of claim 62, wherein said [polynucleotide] polypeptide is produced by recombinant techniques.
- 64. (Amended). The [polynucleotide] <u>polypeptide</u> of claim 62, wherein said [polynucleotide] polypeptide is produced by synthetic techniques.
- 65. (Amended). A test kit for determining if BS322 antigen or anti-BS322 antibody is present in a test sample, said kit comprising:

a container containing at least one purified [polynucleotide] <u>polypeptide</u> selected from the group consisting of SEQ ID NO[S]:24[-28] <u>SEQ ID NO: 25, SEQ ID NO: 26, SEQ ID NO: 27, and SEQ ID NO: 28.</u>

66. (Amended). The test kit of claim 65, wherein the purified [polynucleotide] polypeptide is attached to a solid phase.

1

- 67. (Amended). A method for detecting at least one antibody specific for a BS322 antigen in a test sample suspected of containing the antibody, said method comprising:
- (a) contacting the test sample with a [polynucleotide] <u>polypeptide</u> for a time and under conditions sufficient to allow antigen/antibody complexes to form;

wherein the [polynucleotide] <u>polypeptide</u> contains at least one epitope derived from a sequence selected from the group consisting of: SEQ ID NO[S]:24[-28 and degenerate codon equivalents thereof] <u>SEQ ID NO: 25, SEQ ID NO: 26, SEQ ID NO: 27, and SEQ ID NO: 28; and</u>

- (b) detecting the presence of said complexes as an indication of the antibody specific for the BS322 antigen.
- 68. (Amended). The method of claim 67, wherein the [polynucleotide] polypeptide is attached to a solid phase.
- 70. (Amended). A method for producing antibodies which specifically bind to BS322 antigen, said method comprising:

administering to an individual an isolated immunogenic polypeptide in an amount sufficient to elicit an immune response,

wherein said immunogenic polypeptide comprises at least one <u>amino acid</u> <u>sequence</u> [BS322 epitope and is] selected from the group consisting of: SEQ ID NO[S]:24[-28 and degenerate codon equivalents thereof] <u>SEQ ID NO: 25, SEQ ID NO: 26, SEQ ID NO: 27, and SEQ ID NO: 28.</u>

72. (Amended). An isolated [DNA molecule] <u>polypeptide[,]</u> selected from the group consisting of: SEQ ID NO[S]:24[-28 and degenerate codon equivalents thereof] <u>SEQ ID NO: 25, SEQ ID NO: 26, SEQ ID NO: 27 and SEQ ID NO: 28</u>.

73. (Amended). The <u>polypeptide</u> [DNA molecule] of claim 72, wherein said molecule is produced by recombinant techniques.

1

- 74. (Amended). The <u>polypeptide</u> [DNA molecule] of claim 72, wherein said molecule is produced by synthetic techniques.
- 75. (Amended). A test kit for determining if BS322 antigen or anti-BS322 antibody is present in a test sample, said kit comprising:

a container containing at least one isolated [DNA molecule] <u>polypeptide</u> selected from the group consisting of SEQ ID NO[S]:24[-28 and degenerate codon equivalents thereof] SEQ ID NO: 25, SEQ ID NO: 26, SEQ ID NO: 27, and SEQ ID NO: 28.

- 76. (Amended). The test kit of claim 75, wherein the <u>polypeptide</u> [DNA molecule] is attached to a solid phase.
- 80. (Amended). A method for producing antibodies which specifically bind to BS322 antigen, comprising:

administering to an individual an isolated immunogenic polypeptide in an amount sufficient to elicit an immune response,

wherein said immunogenic polypeptide is [a DNA molecule] selected from the group consisting of: SEQ ID NO[S]:24[-28 and degenerate codon equivalents thereof] SEQ ID NO: 25, SEQ ID NO: 26, SEQ ID NO: 27, and SEQ ID NO: 28.



#a8/dec.

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Billing-Medel, et al.

Serial No.: 09/489,079

Filed: January 21, 2000

For: Reagents and Methods Useful For

Detecting Diseases of the

Breast

Attorney Docket No.: 6451.US.P1

Examiner: J. Epps

Group Art Unit: 1635

Certificate of Mailing (37 CFR 1.8(a)):

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being sent by first class mail to the Commissioner for Patents, Washington D.C., 20231 on January 27, 2003.

Wanda F Smith

DECLARATION UNDER 37 C.F.R. SECTION 1.132 of EDWARD GRANADOS

Commissioner for Patents Washington, D.C. 20231

Sir:

RECEIVED

FEB Q 5 2003

TECH CENTER 1600/2900

I, Edward Granados, declare:

- 1. I am one skilled in the art of cancer diagnostics. I have a Ph.D. in chemistry from the State University of New York at Buffalo, and an M.A. and B.A., also in Chemistry, from the State University of New York at Oneonta.
- 2. I have worked at Abbott Laboratories in the Diagnostics Division for eighteen years. My responsibilities include: the development of new diagnostic technologies and the discovery and validation of novel cancer markers to improve the accuracy of diagnosing the onset of cancer.
- 3. I have also authored numerous patents and publications relating to cancer markers. (See Exhibit A).

- 4. I prepared an alignment between BS322 and NY-BR-1 (AF269087). The alignment was prepared using the software program Sequencher (Version 4) which is commercially available from Gene Codes Corporation, 640 Avis Drive, Ann Arbor, MI 48108. The primers used (and which are described in Cancer Research, 61:2055-2061 (March 1, 2001) were: primer BR-1A TCTCATAGATGCTGGTGCTGATC
- 5. BS322 contains 2683 nucleotides (see the consensus sequence shown in SEQ ID NO:9 of the above-identified application) and NY-BR-1 contains 4466 nucleotides. Based upon the alignment that I prepared as described above in Paragraph 4, I prepared the contig map shown in attached Exhibit B. The contig shows that BS322 is missing a single stretch of 185 nucleotides that are present in NY-BR-1. These nucleotides are missing between position 1198 and 1199 of BS322. The missing piece is nucleotides 3015 thru 3198 of NY-BR-1 (AF269087). Also, the first 45 bases of BS322 are 44.4 percent identical to AF269087). The remaining bases were 99.2% identical (see attached Exhibit C).
- 6. I prepared an amino acid sequence alignment between SEQ ID NOS: 24 and 25 of the above-identified application and NY-BR-1 (see attached Exhibit D). The alignment was prepared using the Pileup and Pretty alignment programs that are part of the Wisconsin Package. The Wisconsin Package is a compilation of genomic and proteomic programs that is a product of Accelrys, San Diego, California.
- 7. In the alignment shown in Exhibit D, capital letters represent matches and small letters represent mismatches in

the alignment. For SEQ ID NO:24, the matches begin at amino acid 592 of NY-BR-1. There are 5 mismatches until amino acid 972 and at the end, only 1 out of the remaining 16 amino acids contain a mismatch. For SEQ ID NO:25, beginning at amino acid 1025 of NY-BR-1, there are 9 mismatches initially, and then the remainder of the sequence is a complete match.

8. I hereby declare that all statements made herein are of my own knowledge are true and that all statements made on information and belief are believed to be true: and further that the statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both under Section 1001 of Title 18 of the United States Code and such willful false statements may jeopardize the validity of the application or any patent issued thereon.

01/10/03



EXHIBIT A

PATENTS

US6465181 10/15/2002 Reagents and methods useful for detecting diseases of the prostate

US6391543 05/21/2002 Reagents and methods useful for detecting diseases of the prostate

US6350583 02/26/2002 Reagents and methods useful for detecting diseases of the prostate

US6252047 06/26/2001 Reagents and methods useful for detecting diseases of the prostate

US6232456 05/15/2001 Serine protease reagents and methods useful for detecting and treating diseases of the prostate

US6203992 03/20/2001 Nucleic acid primers and probes for detecting tumor cells

US6183952 02/06/2001 Reagents and methods useful for detecting diseases of the breast

US6130043 10/10/2000 Reagents and methods useful for detecting diseases of the prostate

US5955268 09/21/1999 Method and reagent for detecting multiple nucleeic acid sequences in a test sample US5637472 06/10/1997 Hydrazine derivitized cells

US5591598 01/07/1997 Method for quantitating hydrazine groups

US5229268 07/20/1993 Method for diagnostic immunoassay by solid phase separation

PUBLICATIONS

Colpitts TL, Billing-Medel P, Granados EN, Hayden M, Hodges S, Menhart N, Roberts L, Russel J., Stroupe SD. Mammaglobin is found in breast tissue as a complex with BU101.

Colpitts TL, Billing-Medel P, Friedman P, Granados EN, Hodges S, Menhart N, Roberts L, Russel J., Stroupe SD. Mammaglobin complexes with BU101 in breast tissue. AnnNY Acad Sci. 2000; 923: 312-5. Biochemistry, 2001 Sep 18;40(37):11048-59>

Methylated poly(L-lysine): Conformational effects and interactions with polynucleotides. Bello.J; Granado EN; Lewinski S; Bello HR; Trueheart T. J Biomol Struct Dyn 2(5) p899-913,1985.

Preparation and assay of poly ICL-CM dextran, an interferon inducer of reduced toxicity. Bello J; Granados EN; McGarry M; O'Malley J.Methods Enzymol 119 p103-106,1986.

Purification of carboxymethylcellulose decreases toxicity of poly ICLC in mice.Bello J; O'Malley J; Granados EN. J.Interferon Res 5(3) p429-30,1985.

Poly ICL-CM dextran: An interferon inducer of reduced toxicity. Granados EN; Dawidzik J; O'Malley; McGarry M; Bello J. J Interferon Res 4(2) p155-160, 1984.

Poly ICLC induces anti-IC antibodies in mice and rabbits. Granados EN; Alm; O'Malley: McGarry M; Bello J. J Interferon Res 4(1) p57-62,1984.

Human serum digests poly(rI). poly(rC) differently from other mammalian sera. Granados EN; Lewinski S; O'Malley J; Bello J.J Interferon Res 4(1) p51-55,1984.

Conformation and aggregation of melittin: Dependence on pH and concentration. Bello J; Bello HR; Granados EN.Biochemistry 21(3) p461-5,1982.

Interactions of poly(trimethylysine) and poly(lysine) with polynucleotides:Circular dichroism and A-T sequence selectivity.Granados,EN;Bello J. Biochemistry 20(16) p4761-4765,1981.

Interactions of poly(trimethyllysine) and poly(ornithine) with polynucleotides:Salt dissociation and thermal denaturization.Granados EN;Bello J.Biochemistry 19(14)p3227-3233,1980.

Alkylated poly-amino part I: Conformational properties of poly-n-epsilon trimethyl-L-lysine and poly-n-delta tri methyl-L-ornithine.Granados EN; Bello.J. Biopolymers 18 (6)p1479-1486,1979.

Enhanced Sensitivity Assay for the TDx Analyzer. Grenier F; Schick B: Granados E; Kolaczkowski L; Pry T. Clin Chem 33 (9) p1570,1987.

TDx-R Digoxin III A non-extraction immunoassay for serum digoxin. Grenier, F Schick B; Granados E; Wang N; Hansen J; Pry T. Clin Chem 33 (6) p923, 1987.



EXHIBIT B

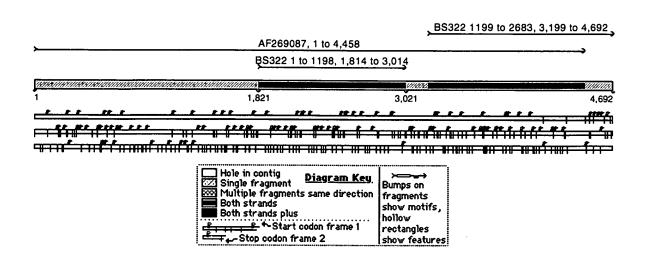




EXHIBIT C

>AF269087	#1	CTAGTCTATA CCAGCAACGA CTCCTACATC
	#1	CTAGTCTATA CCAGCAACGA CTCCTACATC
>AF269087	#31	GTCCACTCTG GGGATCTTAG AAAGATCCAT
	#31	GTCCACTCTG GGGATCTTAG AAAGATCCAT
>AF269087	#61	AAAGCTGCCT CCCGGGGACA AGTCCGGAAG
	#61	AAAGCTGCCT CCCGGGGACA AGTCCGGAAG
>AF269087	#91	CTGGAGAAGA TGACAAAGAG GAAGAAGACC
	#91	CTGGAGAAGA TGACAAAGAG GAAGAAGACC
>AF269087	#121	ATCAACCTTA ATATACAAGA CGCCCAGAAG
	#121	ATCAACCTTA ATATACAAGA CGCCCAGAAG
>AF269087	#151	AGGACTGCTC TACACTGGGC CTGTGTCAAT
	#151	AGGACTGCTC TACACTGGGC CTGTGTCAAT
>AF269087	#181	GGCCATGAGG AAGTAGTAAC ATTTCTGGTA
	#181	GGCCATGAGG AAGTAGTAAC ATTTCTGGTA
>AF269087	#211	CACACAAACH CCCACCHHOA CCHCCHTCAT
~AF203001	#211	GACAGAAAGT GCCAGCTTGA CGTCCTTGAT

	#211	GACAGAAAGT GCCAGCTTGA CGTCCTTGAT
>AF269087	#241	GGCGAACACA GGACACCTCT GATGAAGGCT
	#241	GGCGAACACA GGACACCTCT GATGAAGGCT
>AF269087	#271	CTACAATGCC ATCAGGAGGC TTGTGCAAAT
	#271	CTACAATGCC ATCAGGAGGC TTGTGCAAAT
>AF269087	#301	ATTCTGATAG ATTCTGGTGC CGATATAAAT
	#301	ATTCTGATAG ATTCTGGTGC CGATATAAAT
>AF269087	#331	CTCGTAGATG TGTATGGCAA CATGGCTCTC
	#331	CTCGTAGATG TGTATGGCAA CATGGCTCTC
>AF269087	#361	CATTATGCTG TTTATAGTGA GATTTTGTCA
	#361	CATTATGCTG TTTATAGTGA GATTTTGTCA
>AF269087	#391	GTGGTGGCAA AACTGCTGTC CCATGGTGCA
	#391	GTGGTGGCAA AACTGCTGTC CCATGGTGCA
>AF269087	#421	GTCATCGAAG TGCACAACAA GGCTAGCCTC
	#421	GTCATCGAAG TGCACAACAA GGCTAGCCTC
>AF269087	#451	ACACCACTTT TACTATCCAT AACGAAAAGA
	#451	ACACCACTTT TACTATCCAT AACGAAAAGA

>AF269087	#481	AGTGAGCAAA TTGTGGAATT TTTGCTGATA
	#481	AGTGAGCAAA TTGTGGAATT TTTGCTGATA
>AF269087	#511	AAAAATGCAA ATGCGAATGC AGTTAATAAG
	#511	AAAAATGCAA ATGCGAATGC AGTTAATAAG
>AF269087	#541	TATAAATGCA CAGCCCTCAT GCTTGCTGTA
	#541	TATAAATGCA CAGCCCTCAT GCTTGCTGTA
>AF269087	#571	TGTCATGGAT CATCAGAGAT AGTTGGCATG
	#571	TGTCATGGAT CATCAGAGAT AGTTGGCATG
>AF269087	#601	CTTCTTCAGC AAAATGTTGA CGTCTTTGCT
	#601	CTTCTTCAGC AAAATGTTGA CGTCTTTGCT
>AF269087	#631	GCAGATATAT GTGGAGTAAC TGCAGAACAT
	#631	GCAGATATAT GTGGAGTAAC TGCAGAACAT
>AF269087	#661	TATGCTGTTA CTTGTGGATT TCATCACATT
	#661	TATGCTGTTA CTTGTGGATT TCATCACATT
>AF269087	#691	CATGAACAAA TTATGGAATA TATACGAAAA
	#691	CATGAACAAA TTATGGAATA TATACGAAAA

>AF269087	#721	TTATCTAAAA ATCATCAAAA TACCAATCCA
	#721	MIDATICAL AND AMERICAN AND AND CONTROLS
	# / 2 1	TTATCTAAAA ATCATCAAAA TACCAATCCA
>AF269087	#751	GAAGGAACAT CTGCAGGAAC ACCTGATGAG
	#751	GAAGGAACAT CTGCAGGAAC ACCTGATGAG
>AF269087	#781	GCTGCACCCT TGGCGGAAAG AACACCTGAC
7111 203007	11 7 0 1	GETGEACCET TOGGGGAAAG AACACCTGAC
	#781	GCTGCACCCT TGGCGGAAAG AACACCTGAC
	11702	derocheeer rededding meneerone
>AF269087	#811	ACAGCTGAAA GCTTGGTGGA AAAAACACCT
		•••••
	#811	ACAGCTGAAA GCTTGGTGGA AAAAACACCT
>AF269087	#841	GATGAGGCTG CACCCTTGGT GGAAAGAACA
	#841	GATGAGGCTG CACCCTTGGT GGAAAGAACA
>AF269087	#871	CCTGACACGG CTGAAAGCTT GGTGGAAAAA
		•••••
	#871	CCTGACACGG CTGAAAGCTT GGTGGAAAAA
>AF269087	#901	ACACCTGATG AGGCTGCATC CTTGGTGGAG
	#901	ACACCTGATG AGGCTGCATC CTTGGTGGAG
, AH260007	#021	
>AF269087	#931	GGAACATCTG ACAAAATTCA ATGTTTGGAG
	#021	CONNECTED ACADAMETER ACCORDING ON C
	#931	GGAACATCTG ACAAAATTCA ATGTTTGGAG

>AF269087	#961	AAAGCGACAT CTGGAAAGTT CGAACAGTCA
	#961	AAAGCGACAT CTGGAAAGTT CGAACAGTCA
>AF269087	#991	GCAGAAGAAA CACCTAGGGA AATTACGAGT
	#991	GCAGAAGAAA CACCTAGGGA AATTACGAGT
>AF269087	#1021	CCTGCAAAAG AAACATCTGA GAAATTTACG
	#1021	CCTGCAAAAG AAACATCTGA GAAATTTACG
>AF269087	#1051	TGGCCAGCAA AAGGAAGACC TAGGAAGATC
	#1051	TGGCCAGCAA AAGGAAGACC TAGGAAGATC
>AF269087	#1081	GCATGGGAGA AAAAAGAAGA CACACCTAGG
	#1081	GCATGGGAGA AAAAAGAAGA CACACCTAGG
>AF269087	#1111	GAAATTATGA GTCCCGCAAA AGAAACATCT
	#1111	GAAATTATGA GTCCCGCAAA AGAAACATCT
>AF269087	#1141	GAGAAATTTA CGTGGGCAGC AAAAGGAAGA
	#1141	GAGAAATTTA CGTGGGCAGC AAAAGGAAGA
>AF269087	#1171	CCTAGGAAGA TCGCATGGGA GAAAAAAGAA
	#1171	CCTAGGAAGA TCGCATGGGA GAAAAAAGAA
>AF269087	#1201	ACACCTGTAA AGACTGGATG CGTGGCAAGA

		• • • • • • • • • • • • • • • • • • • •
	#1201	ACACCTGTAA AGACTGGATG CGTGGCAAGA
>AF269087	#1231	GTAACATCTA ATAAAACTAA AGTTTTGGAA
	#1231	GTAACATCTA ATAAAACTAA AGTTTTGGAA
>AF269087	#1261	AAAGGAAGAT CTAAGATGAT TGCATGTCCT
	#1261	AAAGGAAGAT CTAAGATGAT TGCATGTCCT
>AF269087	#1291	ACAAAAGAAT CATCTACAAA AGCAAGTGCC
	#1291	ACAAAAGAAT CATCTACAAA AGCAAGTGCC
>AF269087	#1321	AATGATCAGA GGTTCCCATC AGAATCCAAA
	#1321	AATGATCAGA GGTTCCCATC AGAATCCAAA
>AF269087	#1351	CAAGAGGAAG ATGAAGAATA TTCTTGTGAT
	#1351	CAAGAGGAAG ATGAAGAATA TTCTTGTGAT
>AF269087	#1381	TCTCGGAGTC TCTTTGAGAG TTCTGCAAAG
	#1381	TCTCGGAGTC TCTTTGAGAG TTCTGCAAAG
>AF269087	#1.4.1.1	AMMONACHOR CHARACTERA CHORACTERA
>Ar 209067	#1411 #1411	ATTCAAGTGT GTATACCTGA GTCTATATATATTCAAGTGT GTATACCTGA GTCTATATAT
>AF269087	#1441	CAAAAAGTAA TGGAGATAAA TAGAGAAGTA

	#1441	CAAAAAGTAA TGGAGATAAA TAGAGAAGTA
>AF269087	#1471	GAAGAGCCTC CTAAGAAGCC ATCTGCCTTC
	#1471	GAAGAGCCTC CTAAGAAGCC ATCTGCCTTC
>AF269087	#1501	AAGCCTGCCA TTGAAATGCA AAACTCTGTT
	#1501	AAGCCTGCCA TTGAAATGCA AAACTCTGTT
>AF269087	#1531	CCAAATAAAG CCTTTGAATT GAAGAATGAA
	#1531	CCAAATAAAG CCTTTGAATT GAAGAATGAA
>AF269087	#1561	CAAACATTGA GAGCAGATCC GATGTTCCCA
	#1561	CAAACATTGA GAGCAGATCC GATGTTCCCA
>AF269087	#1591	CCAGAATCCA AACAAAAGGA CTATGAAGAA
	#1591	CCAGAATCCA AACAAAAGGA CTATGAAGAA
>AF269087	#1621	AATTCTTGGG ATTCTGAGAG TCTCTGTGAG
	#1621	AATTCTTGGG ATTCTGAGAG TCTCTGTGAG
>AF269087	#1651	ACTGTTTCAC AGAAGGATGT GTGTTTACCC
	#1651	ACTGTTTCAC AGAAGGATGT GTGTTTACCC
>AF269087	#1681	AAGGCTACAC ATCAAAAAGA AATAGATAAA
	#1681	AAGGCTACAC ATCAAAAAGA AATAGATAAA

>AF269087	#1711	ATAAATGGAA AATTAGAAGA GTCTCCTAAT
		•••••
	#1711	ATAAATGGAA AATTAGAAGA GTCTCCTAAT
>AF269087	#1741	AAAGATGGTC TTCTGAAGGC TACCTGCGGA
	#1741	AAAGATGGTC TTCTGAAGGC TACCTGCGGA
>AF269087	#1771	ATGAAAGTTT CTATTCCAAC TAAAGCCTTA
	#1771	ATGAAAGTTT CTATTCCAAC TAAAGCCTTA
>AF269087	#1801	GAATTGAAGG ACATGCAAAC TTTCAAAGCG
>BS322.1 to 1198	>#1>	AGTATAC ATTCTTTATT
		•••••
	#1801	GAATTGAAGG ACAWGYAWAC WTTCWWWRYK
		* * * * *****
>AF269087	#1831	GAGCCTCCGG GGAAGCCATC TGCCTTCGAG
>BS322 1 to 1198	#18	AATCAT::TT TGCTTCCAAC :CCCATTTAG
	#1831	RAKCMTCCKK KGMWKCCAWC TSCCWTYKAG
	11 1001	* * * *** * ** * * * * * * *
>AF269087	#1861	CCTGCCACTG AAATGCAAAA GTCTGTCCCA
>BS322 1 to 1198	#48	CCTGCCATTG AAATGCAAAA GTCTGTTCCA
	114.0.54	
	#1861	CCTGCCAYTG AAATGCAAAA GTCTGTYCCA * *
>AF269087	#1891	AATAAAGCCT TGGAATTGAA AAATGAACAA
>BS322 1 to 1198	#78	AATAAAGCCT TGGAATTGAA GAATGAACAA
	,	•••••
	#1891	AATAAAGCCT TGGAATTGAA RAATGAACAA *

>BS322 1 to 1198 #108 ACATTGAGAG CAGATGAGAT ACTCCCATCA
#1921 ACATKGAGAG CAGATGAGAT ACTCCCATCA * >AF269087 #1951 GAATCCAAAC AAAAGGACTA TGAAGAAAAT >BS322 1 to 1198 #138 GAATCCAAAC AAAAGGACTA TGAAGAAAGT #1951 GAATCCAAAC AAAAGGACTA TGAAGAAART * >AF269087 #1981 TCTTGGGATA CTGAGAGTCT CTGTGAGACT
* >AF269087 #1951 GAATCCAAAC AAAAGGACTA TGAAGAAAAT >BS322 1 to 1198 #138 GAATCCAAAC AAAAGGACTA TGAAGAAAGT #1951 GAATCCAAAC AAAAGGACTA TGAAGAAART * >AF269087 #1981 TCTTGGGATA CTGAGAGTCT CTGTGAGACT
>AF269087 #1951 GAATCCAAAC AAAAGGACTA TGAAGAAAAT >BS322 1 to 1198 #138 GAATCCAAAC AAAAGGACTA TGAAGAAAGT
>BS322 1 to 1198 #138 GAATCCAAAC AAAAGGACTA TGAAGAAAGT
>BS322 1 to 1198 #138 GAATCCAAAC AAAAGGACTA TGAAGAAAGT
#1951 GAATCCAAAC AAAAGGACTA TGAAGAAART * >AF269087 #1981 TCTTGGGATA CTGAGAGTCT CTGTGAGACT
#1951 GAATCCAAAC AAAAGGACTA TGAAGAAART * >AF269087 #1981 TCTTGGGATA CTGAGAGTCT CTGTGAGACT
* >AF269087 #1981 TCTTGGGATA CTGAGAGTCT CTGTGAGACT
>AF269087 #1981 TCTTGGGATA CTGAGAGTCT CTGTGAGACT
>BS322 1 to 1198 #168 TCTTGGGATT CTGAGAGTCT CTGTGAGACT
#1001 MOMBOGOARIA ORGA GAGRON ORGANOA GA
#1981 TCTTGGGATW CTGAGAGTCT CTGTGAGACT
>AF269087 #2011 GTTTCACAGA AGGATGTGTG TTTACCCAAG
>BS322 1 to 1198 #198 GTTTCACAGA AGGATGTGTT TTTACCCAAG
••••••
#2011 GTTTCACAGA AGGATGTGTG TTTACCCAAG
>AF269087 #2041 GCTGCGCATC AAAAAGAAAT AGATAAAATA
>BS322 1 to 1198 #228 GCTGCGCATC AAAAAGAAAT AGATAAAATA
#2041 GCTGCGCATC AAAAAGAAAT AGATAAAATA
>AF269087 #2071 AATGGAAAAT TAGAAGGGTC TCCTGTTAAA
>BS322 1 to 1198 #258 AATGGAAAAT TAGAAGGGTC TCCTGTTAAA
#2071 AATGGAAAAT TAGAAGGGTC TCCTGTTAAA
#20/1 AAIGGAAAT TAGAAGGGTC TCCTGTTAAA
>AF269087 #2101 GATGGTCTTC TGAAGGCTAA CTGCGGAATG
>BS322 1 to 1198 #288 GATGGTCTTC TGAAGGCTAA CTGCGGAATG

#2101 GATGGTCTTC TGAAGGCTAA CTGCGGAATG

>AF269087	#2131	AAAGTTTCTA TTCCAACTAA AGCCTTAGAA
>BS322 1 to 1198	#318	AAAGTTTCTA TTCCAACTAA AGCCTTAGAA
	#2131	AAAGTTTCTA TTCCAACTAA AGCCTTAGAA
>AF269087	#2161	TTGATGGACA TGCAAACTTT CAAAGCAGAG
>BS322 1 to 1198	#348	TTGATGGACA TGCAAACTTT CAAAGCAGAG
		•••••
	#2161	TTGATGGACA TGCAAACTTT CAAAGCAGAG
>AF269087	#2191	CCTCCCGAGA AGCCATCTGC CTTCGAGCCT
>BS322 1 to 1198		CCTCCCGAGA AGCCATCTGC CTTCGAGCCT
22022 1 00 1130	1373	
	#2191	CCTCCCGAGA AGCCATCTGC CTTCGAGCCT
>AF269087	#2221	GCCATTGAAA TGCAAAAGTC TGTTCCAAAT
>BS322 1 to 1198	#408	GCCATTGAAA TGCAAAAGTC TGTTCCAAAT
		•••••
	#2221	GCCATTGAAA TGCAAAAGTC TGTTCCAAAT
>AF269087	#2251	AAAAAAAAA MAAAAAA MAAAAAAA
>BS322 1 to 1198		AAAGCCTTGG AATTGAAGAA TGAACAAACA AAAGCCTTGG AATTGAAGAA TGAACAAACA
755322 1 00 1130	#420	AAAGCCIIGG AAIIGAAGAA IGAACAAACA
	#2251	AAAGCCTTGG AATTGAAGAA TGAACAAACA
>AF269087	#2281	TTGAGAGCAG ATGAGATACT CCCATCAGAA
>BS322 1 to 1198	#468	TTGAGAGCAG ATGAGATACT CCCATCAGAA
		•••••
	#2281	TTGAGAGCAG ATGAGATACT CCCATCAGAA
~ NE260007	#2211	MOOAAAAAA AOOAAMAMAA AOAAAA
>AF269087 >BS322 1 to 1198	#2311	TCCAAACAAA AGGACTATGA AGAAAGTTCT
>D0322 I (U 1136	π 12 7 О	TCCAAACAAA AGGACTATGA AGAAAGTTCT
	#2311	TCCAAACAAA AGGACTATGA AGAAAGTTCT
		TOTAL MOMENTAL MOMENTAL

>AF269087	#2341	TGGGATTCTG AGAGTCTCTG TGAGACTGTT
>BS322 1 to 1198	#528	TGGGATTCTG AGAGTCTCTG TGAGACTGTT
		•••••
	#2341	TGGGATTCTG AGAGTCTCTG TGAGACTGTT
		·
>AF269087	#2371	TCACAGAAGG ATGTGTGTTT ACCCAAGGCT
>BS322 1 to 1198	#558	TCACAGAAGG ATGTGTGTTT ACCCAAGGCT
		•••••
	#2371	TCACAGAAGG ATGTGTGTTT ACCCAAGGCT
>AF269087		ACACATCAAA AAGAAATAGA TAAAATAAAT
>BS322 1 to 1198	#588	ACACATCAAA AAGAAATAGA TAAAATAAAT
	#2401	ACACATCAAA AAGAAATAGA TAAAATAAAT
>AF269087	#2431	GGAAAATTAG AAGAGTCTCC TGATAATGAT
>BS322 1 to 1198		GGAAAATTAG AAGAGTCTCC TGATAATGAT
7 200 22 2 00 1190	11010	COMMITTED MONOTETEE TONTANTONT
	#2431	GGAAAATTAG AAGAGTCTCC TGATAATGAT
>AF269087	#2461	GGTTTTCTGA AGGCTCCCTG CAGAATGAAA
>BS322 1 to 1198	#648	GGTTTTCTGA AGGCTCCCTG CAGAATGAAA
	#2461	GGTTTTCTGA AGGCTCCCTG CAGAATGAAA
>AF269087	#2491	GTTTCTATTC CAACTAAAGC CTTAGAATTG
>BS322 1 to 1198	#678	GTTTCTATTC CAACTAAAGC CTTAGAATTG
		•••••
	#2491	GTTTCTATTC CAACTAAAGC CTTAGAATTG
>AF269087	#2521	AMOCACAMOC AAACMMMCAA ACCACACACA
>BS322 1 to 1198	– – –	ATGGACATGC AAACTTTCAA AGCAGAGCCT ATGGACATGC AAACTTTCAA AGCAGAGCCT
~ DD J Z Z Z L U 1130	π / Ο Ο	AIGGACAIGC AMACITICAA AGCAGAGCCT
		••••••

	#2521	ATGGACATGC AAACTTTCAA AGCAGAGCCT
> NE260007	#2551	OCCORDA CARROLL CARROLL CONTROLL CONTRO
>AF269087 >BS322 1 to 1198		CCCGAGAAGC CATCTGCCTT CGAGCCTGCC
>B5322 1 to 1198	#/36	CCCGAGAAGC CATCTGCCTT CGAGCCTGCC
	#2551	CCCGAGAAGC CATCTGCCTT CGAGCCTGCC
	π2331	CCCGAGAAGC CATCTGCCTT CGAGCCTGCC
>AF269087	#2581	ATTGAAATGC AAAAGTCTGT TCCAAATAAA
>BS322 1 to 1198		ATTGAAATGC AAAAGTCTGT TCCAAATAAA
	#2581	ATTGAAATGC AAAAGTCTGT TCCAAATAAA
>AF269087	#2611	GCCTTGGAAT TGAAGAATGA ACAAACATTG
>BS322 1 to 1198	#798	GCCTTGGAAT TGAAGAATGA ACAAACATTG
	#2611	GCCTTGGAAT TGAAGAATGA ACAAACATTG
>AF269087	#2641	AGAGCAGATC AGATGTTCCC TTCAGAATCA
>BS322 1 to 1198	#828	AGAGCAGATC AGATGTTCCC TTCAGAATCA
		•••••
	#2641	AGAGCAGATC AGATGTTCCC TTCAGAATCA
>AF269087	#2671	AAACAAAAGA AGGTTGAAGA AAATTCTTGG
>BS322 1 to 1198	#858	AAACAAAAGA ACGTTGAAGA AAATTCTTGG
	# O C T 4	
	#2671	AAACAAAAGA ASGTTGAAGA AAATTCTTGG
		*
>AF269087	#2701	GATTCTGAGA GTCTCCGTGA GACTGTTTCA
>BS322 1 to 1198		GATTCTGAGA GTCTCCGTGA GACTGTTTCA
7B3322 1 CO 1196	ποοο	
	#2701	GATTCTGAGA GTCTCCGTGA GACTGTTTCA
	H 2 / V 1	SHITCIGAGA GICICCGIGA GACIGIIICA
>AF269087	#2731	CAGAAGGATG TGTGTGTACC CAAGGCTACA
>BS322 1 to 1198		CAGAAGGATG TGTGTGTACC CAAGGCTACA
		

		• • • • • • • • • • • • • • • • • • • •
	#2731	CAGAAGGATG TGTGTGTACC CAAGGCTACA
>AF269087	#2761	CATCAAAAAG AAATGGATAA AATAAGTGGA
>BS322 1 to 1198	#948	CATCAAAAAG AAATGGATAA AATAAGTGGA
		•••••
	#2761	CATCAAAAAG AAATGGATAA AATAAGTGGA
. 37060007	110701	
	#2791	AAATTAGAAG ATTCAACTAG CCTATCAAAA
>BS322 1 to 1198	#978	AAATTAGAAG ATTCAACTAG CCTATCAAAA
		•••••
	#2791	AAATTAGAAG ATTCAACTAG CCTATCAAAA
>AF269087	#2821	A MODERCO A MA CA CHINGA MINO MINORO A A A A
		ATCTTGGATA CAGTTCATTC TTGTGAAAGA
>BS322 1 to 1198	#1008	ATCTTGGATA CAATTCATTC TTGTGAAAGA
		•••••
	#2821	ATCTTGGATA CARTTCATTC TTGTGAAAGA
		*
>AF269087	#2851	GCAAGGGAAC TTCAAAAAGA TCACTGTGAA
>BS322 1 to 1198		GCAAGGGAAC TTCAAAAAGA TCACTGTGAA
>B5522 1 to 1196	#1030	GCAAGGGAAC IICAAAAAGA ICACIGIGAA
		••••••••
	#2851	GCAAGGGAAC TTCAAAAAGA TCACTGTGAA
>AF269087	#2881	CAACGTACAG GAAAAATGGA ACAAATGAAA
>BS322 1 to 1198		CAATGTACAG GAAAAATGGA ACAAATGAAA
1 20022 1 00 1170	11 2000	
		•••••
	#2881	CAAYGTACAG GAAAAATGGA ACAAATGAAA
		*
>AF269087	#2911	AAGAAGTTTT GTGTACTGAA AAAGAAACTG
>BS322 1 to 1198	#1098	AAGAAGTTTT GTGTACTGAA AAAGAAACTG
	#2011	NONCOMPET OF COUNTY OF COU
	#2911	AAGAAGTTTT GTGTACTGAA AAAGAAACTG
>AF269087	#2941	TCAGAAGCAA AAGAAATAAA ATCACAGTTA

>BS322 1 to 1198	#1128	TCAGAAGCAA AAGAAATAAA ATCACAGTTA
	#2941	TCAGAAGCAA AAGAAATAAA ATCACAGTTA
	#2971	GAGAACCAAA AAGTTAAATG GGAACAAGAG
>BS322 1 to 1198	#1158	GAGAACCAAA AAGTTAAATG GGAACAAGAG
	#2971	GAGAACCAAA AAGTTAAATG GGAACAAGAG
>AF269087	#3001	CTCTGCAGTG TGAGATTGAC TTTAAACCAA
>BS322 1 to 1198	#1188	CTCTGCAGTG TGAG
		•••••
	#3001	CTCTGCAGTG TGAGATTGAC TTTAAACCAA
>AF269087	#3031	GAAGAAGAGA AGAGAAGAAA TGCCGATATA
	#3031	GAAGAAGAGA AGAGAAGAAA TGCCGATATA
>AF269087	#3061	TTAAATGAAA AAATTAGGGA AGAATTAGGA
	#3061	TTAAATGAAA AAATTAGGGA AGAATTAGGA
>AF269087	#3091	AGAATCGAAG AGCAGCATAG GAAAGAGTTA
	#3091	AGAATCGAAG AGCAGCATAG GAAAGAGTTA
>AF269087	#3121	GAAGTGAAAC AACAACTTGA ACAGGCTCTC
	H2404	
	#3121	GAAGTGAAAC AACAACTTGA ACAGGCTCTC
>AF269087	#3151	AGAATACAAG ATATAGAATT GAAGAGTGTA
	#3151	AGAATACAAG ATATAGAATT GAAGAGTGTA

>BS322 1199 to 2683	>#1>	GT TTCTCACACT
>AF269087	#3181	GAAAGTAATT TGAATCAGGT TTCTCACACT
	#3181	GAAAGTAATT TGAATCAGGT TTCTCACACT
>BS322 1199 to 2683	#13	CATGAAAATG AAAATTATCT CTTACATGAA
>AF269087	#3211	CATGAAAATG AAAATTATCT CTTACATGAA
		•••••
	#3211	CATGAAAATG AAAATTATCT CTTACATGAA
>BS322 1199 to 2683	#43	AATTGCATGT TGAAAAAGGA AATTGCCATG
>AF269087	#3241	AATTGCATGT TGAAAAAGGA AATTGCCATG
		• • • • • • • • • • • • • • • • • • • •
	#3241	AATTGCATGT TGAAAAAGGA AATTGCCATG
		~
>BS322 1199 to 2683	#73	CTAAAACTGG AAATAGCCAC ACTGAAACAC
>AF269087	#3271	CTAAAACTGG AAATAGCCAC ACTGAAACAC
		•••••
	#3271	CTAAAACTGG AAATAGCCAC ACTGAAACAC
>BS322 1199 to 2683		CAATACCAGG AAAAGGAAAA TAAATACTTT
>AF269087	#3301	CAATACCAGG AAAAGGAAAA TAAATACTTT
	W2224	
	#3301	CAATACCAGG AAAAGGAAAA TAAATACTTT
>BS322 1199 to 2683	#122	GAGGACATTA AGATTTTAAA AGAAAAGAAT
>AF269087		GAGGACATTA AGATTTTAAA AGAAAAGAAT GAGGACATTA AGATTTTAAA AGAAAAGAAT
7AF 209007	#3331	
	#3331	GAGGACATTA AGATTTTAAA AGAAAAGAAT
	#3331	GAGGACATTA AGATTITAAA AGAAAAGAAT
>BS322 1199 to 2683	#163	GCTGAACTTC AGATGACCCT AAAACTGAAA
	#3361	GCTGAACTTC AGATGACCCT AAAACTGAAA
		COLUMN TO THE TOTAL TOTA
	#3361	GCTGAACTTC AGATGACCCT AAAACTGAAA
	,, , , , , , , , , , , , , , , , , , , ,	COLORACTIC AUATORCCCI ANANCIGAMA

>BS322 1199 to 2683	#193	GAGGAATCAT TAACTAAAAG GGCATCTCAA
>AF269087	#3391	GAGGAATCAT TAACTAAAAG GGCATCTCAA
	#3391	GAGGAATCAT TAACTAAAAG GGCATCTCAA
		,
>BS322 1199 to 2683	#223	TATAGTGGGC AGCTTAAAGT TCTGATAGCT
>AF269087	#3421	TATAGTGGGC AGCTTAAAGT TCTGATAGCT
		•••••
	#3421	TATAGTGGGC AGCTTAAAGT TCTGATAGCT
- DG200 4400 + 0603	#0.50	
>BS322 1199 to 2683		GAGAACACAA TGCTCACTTC TAAATTGAAG
>AF269087	#3451	GAGAACACAA TGCTCACTTC TAAATTGAAG
	#24F1	
	#3451	GAGAACACAA TGCTCACTTC TAAATTGAAG
>BS322 1199 to 2683	#283	GAAAAACAAG ACAAAGAAAT ACTAGAGGCA
>AF269087		GAAAACAAG ACAAAGAAAT ACTAGAGGCA
20000	113 101	
	#3481	GAAAAACAAG ACAAAGAAAT ACTAGAGGCA
		oralandra noral noral normandon
>BS322 1199 to 2683	#313	GAAATTGAAT CACACCATCC TAGACTGGCT
>AF269087	#3511	GAAATTGAAT CACACCATCC TAGACTGGCT
	#3511	GAAATTGAAT CACACCATCC TAGACTGGCT
>BS322 1199 to 2683	#343	TCTGCTGTAC AAGACCATGA TCAAATTGTG
>AF269087	#3541	TCTGCTGTAC AAGACCATGA TCAAATTGTG
		• • • • • • • • • • • • • • • • • • • •
	#3541	TCTGCTGTAC AAGACCATGA TCAAATTGTG
>BS322 1199 to 2683		ACATCAAGAA AAAGTCAAGA ACCTGCTTTC
>AF269087	#3571	ACATCAAGAA AAAGTCAAGA ACCTGCTTTC
		•••••

	#3571	ACATCAAGAA AAAGTCAAGA ACCTGCTTTC
>BS322 1199 to 2683	#403	CACATTGCAG GAGATGCTTG TTTGCAAAGA
>AF269087	#3601	CACATTGCAG GAGATGCTTG TTTGCAAAGA
	#2601	CACAMMOOAG CACAMOOMMO MMMOOAAAA
	#3601	CACATTGCAG GAGATGCTTG TTTGCAAAGA
>BS322 1199 to 2683	#433	AAAATGAATG TTGATGTGAG TAGTACGATA
>AF269087	#3631	AAAATGAATG TTGATGTGAG TAGTACGATA
		•••••
	#3631	AAAATGAATG TTGATGTGAG TAGTACGATA
>BS322 1199 to 2683	#463	TATAACAATG AGGTGCTCCA TCAACCACTT
>AF269087	#3661	TATAACAATG AGGTGCTCCA TCAACCACTT
	#3661	TATAACAATG AGGTGCTCCA TCAACCACTT
>BS322 1199 to 2683	#493	TCTGAAGCTC AAAGGAAATC CAAAAGCCTA
>AF269087	#3691	TCTGAAGCTC AAAGGAAATC CAAAAGCCTA
	#3691	TCTGAAGCTC AAAGGAAATC CAAAAGCCTA
>BS322 1199 to 2683	#523	AAAATTAATC TCAATTATGC AGGAGATGCT
>AF269087	#3721	AAAATTAATC TCAATTATGC AGGAGATGCT
	#3721	AAAATTAATC TCAATTATGC AGGAGATGCT
>BS322 1199 to 2683	#553	CTAAGAGAAA ATACATTGGT TTCAGAACAT
>AF269087	#3751	CTAAGAGAAA ATACATTGGT TTCAGAACAT
- 1.1. 205001	110701	CIAAGAGAA AIACAIIGGI IICAGAACAI
	#3751	CTAAGAGAAA ATACATTGGT TTCAGAACAT
>BS322 1199 to 2683	#583	GCACAAGAG ACCAACGTGA AACACAGTGT
>AF269087	#3781	GCACAAGAG ACCAACGTGA AACACAGTGT

	#3781	GCACAAAGAG ACCAACGTGA AACACAGTGT
	113701	GCACAAAA ACCAACOTOA AACACAOTGI
>BS322 1199 to 2683	#613	CAAATGAAGG AAGCTGAACA CATGTATCAA
>AF269087	#3811	CAAATGAAGG AAGCTGAACA CATGTATCAA
	#3811	CAAATGAAGG AAGCTGAACA CATGTATCAA
- Daggoo 1100 + - 0600	11.6.4.3	
>BS322 1199 to 2683	#643	AACGAACAAG ATAATGTGAA CAAACACACT
>AF269087	#3841	AACGAACAAG ATAATGTGAA CAAACACACT
	#3841	AACGAACAAG ATAATGTGAA CAAACACACT
>BS322 1199 to 2683	#672	
		GAACAGCAGG AGTCTCTAGA TCAGAAATTA
>AF269087	#3871	GAACAGCAGG AGTCTCTAGA TCAGAAATTA
		•••••
	#3871	GAACAGCAGG AGTCTCTAGA TCAGAAATTA
>BS322 1199 to 2683	#703	TTTCAACTAC AAAGCAAAAA TATGTGGCTT
>AF269087	#3901	
>AF 209001	#3301	TTTCAACTAC AAAGCAAAAA TATGTGGCTT
		•••••
	#3901	TTTCAACTAC AAAGCAAAAA TATGTGGCTT
>BS322 1199 to 2683	#733	CAACAGCAAT TAGTTCATGC ACATAAGAAA
>AF269087	#3931	CAACAGCAAT TAGTTCATGC ACATAAGAAA
- 111 20300 ;	113331	
	#3931	CAACAGCAAT TAGTTCATGC ACATAAGAAA
>BS322 1199 to 2683	#763	GCTGACAACA AAAGCAAGAT AACAATTGAT
>AF269087	#3961	GCTGACAACA AAAGCAAGAT AACAATTGAT
	#2061	CCMCACACA AAACCAACAM AACAAMMCAM
	#3961	GCTGACAACA AAAGCAAGAT AACAATTGAT
>BS322 1199 to 2683	#793	ATTCATTTTC TTGAGAGGAA AATGCAACAT

>AF269087	#3991	ATTCATTTTC TTGAGAGGAA AATGCAACAT
	#3991	ATTCATTTTC TTGAGAGGAA AATGCAACAT
>BS322 1199 to 2683	#823	CATCTCCTAA AAGAGAAAAA TGAGGAGATA
>AF269087	#4021	CATCTCCTAA AAGAGAAAAA TGAGGAGATA
	#4021	CATCTCCTAA AAGAGAAAAA TGAGGAGATA
>BS322 1199 to 2683	#853	TTTAATTACA ATAACCATTT AAAAAACCGT
>AF269087	#4051	TTTAATTACA ATAACCATTT AAAAAACCGT
	11.4054	
	#4051	TTTAATTACA ATAACCATTT AAAAAACCGT
>BS322 1199 to 2683	#883	ATATATCAAT ATGAAAAAGA GAAAGCAGAA
>AF269087	#4081	ATATATCAAT ATGAAAAAGA GAAAGCAGAA
	#4081	ATATATCAAT ATGAAAAAGA GAAAGCAGAA
>BS322 1199 to 2683	#913	ACAGAAAACT CATGAGAGAC AAGCAGTAAG
>AF269087	#4111	ACAGAAAACT CATGAGAGAC AAGCAGTAAG
		•••••
	#4111	ACAGAAAACT CATGAGAGAC AAGCAGTAAG
		-
>BS322 1199 to 2683	#943	AAACTTCTTT TGGAGAAACA ACAGACCAGA
>AF269087	#4141	AAACTTCTTT TGGAGAAACA ACAGACCAGA
	#4141	AAACTTCTTT TGGAGAAACA ACAGACCAGA
>BS322 1199 to 2683	#973	TCTTTACTCA CAACTCATGC TAGGAGGCCA
>AF269087	#4171	TCTTTACTCA CAACTCATGC TAGGAGGCCA
	#4171	TCTTTACTCA CAACTCATGC TAGGAGGCCA

>BS322 1199 to 2683	#1003	GTCCTAGCAT CACCTTATGT TGAAAATCTT
>AF269087	#4201	GTCCTAGCAT CACCTTATGT TGAAAATCTT
	#4201	GTCCTAGCAT CACCTTATGT TGAAAATCTT
>BS322 1199 to 2683	—	ACCAATAGTC TGTGTCAACA GAATACTTAT
>AF269087	#4231	ACCAATAGTC TGTGTCAACA GAATACTTAT
	" 1001	
	#4231	ACCAATAGTC TGTGTCAACA GAATACTTAT
>BS322 1199 to 2683	#1063	TTTAGAAGAA AAATTCATGA TTTCTTCCTG
>AF269087	#4261	TTTAGAAGAA AAATTCATGA TTTCTTCCTG
	#4261	TTTAGAAGAA AAATTCATGA TTTCTTCCTG
>BS322 1199 to 2683		AAGCCTACAG ACATAAAATA ACAGTGTGAA
>AF269087	#4291	AAGCCTACAG ACATAAAATA ACAGTGTGAA
	" 4004	
	#4291	AAGCCTACAG ACATAAAATA ACAGTGTGAA
>BS322 1199 to 2683	#1123	GAATTACTTG TTCACGAA:T :C:TCGCTCT
>AF269087	#4321	GAATTACTTG TTCACGAATT GCATAAAGCT
	#4321	GAATTACTTG TTCACGAATT GCATMRMKCT
		* * * ***
>BS322 1199 to 2683	#11E2	CONOMICON O COMPAGGGGG TRATERINGS
>BS322 1199 to 2683 >AF269087		GCACTCCA:G CCTAGGCGCC TAGTGAAACC
>Ar 20908 /	#4351	GCACAGGATT CCCATCTACC CTGATGATGC
	#4351	GCACWSSATK CCYAKSYRCC YWGWKRAWSC
	44221	*** ** * *** * ** **
>BS322 1199 to 2683	#1183	CTGTGTCA:A AAAGAAAA:A AACAAAAACA
>AF269087	#4381	AGCAGACATC ATTCAATCCA ACCAGAATCT
	#4381	MKSWGWCATM AWWSAAWMCA AMCARAAWCW
		**** * ** *** * * * * *

>BS322 1199 to 2683	#1213	AACT:TCCAA GAC:CTCGA: GTGGTTTTTG
>AF269087	#4411	CGCTCTGCAC TCCAGCCTAG GTGACAGAGT
	#4411	MRCTCTSCAM KMCASYCKAG GTGRYWKWKK
		** * * * ** ** * * *****
>BS322 1199 to 2683		GAGACCCTGT ATCACTTCAA ATAATGTGTT
>AF269087	#4441	GAGACTCCAC CTCGGAAA
	#4441	GAGACYCYRY MTCRSWWMAA ATAATGTGTT
		* *** * ****
>BS322 1199 to 2683	#1273	AAACAAGCAT CTTCATCTCA TTAAATAGAA
	#4471	AAACAAGCAT CTTCATCTCA TTAAATAGAA
	113372	AMERAGEAT CITCATCICA TIAMINGAN
>BS322 1199 to 2683	#1303	ATGTTGAAAA ATTGCTTTTG GAATAATTGA
	#4501	ATGTTGAAAA ATTGCTTTTG GAATAATTGA
>BS322 1199 to 2683	#1333	CTTATGGATA TTTCATCAAA TTTACAGTTG
	#4531	CTTATGGATA TTTCATCAAA TTTACAGTTG
	,	
>BS322 1199 to 2683	#1363	GCTATGCTTT CTTATTGTGC ATACTATGAA
	#4561	GCTATGCTTT CTTATTGTGC ATACTATGAA
>BS322 1199 to 2683	#1393	ATGTTTTTCT TCAAAAAGTG TTTATAAGTG
	HACO1	
	#4591	ATGTTTTCT TCAAAAAGTG TTTATAAGTG
>BS322 1199 to 2683	#1423	GTAAGTTTAA GAATGGGGTT GACAGCATTA
	#4621	GTAAGTTTAA GAATGGGGTT GACAGCATTA

>BS322	1199	to	2683	#1453	TCTTTTGTGG	TTATTTGATT	AAACATTTAC
				#4651	TCTTTTGTGG	TTATTTGATT	AAACATTTAC
>BS322	1199	to	2683	#1483	TAATTGTGCA	та	
				#4601			

EXHIBIT D

NYBR1list2.msf{NY-BR-1} NYBR1list2.msf{NYBR1sec25}		niqdaqkrta			50 cqldvldgeh
NYBR11ist2.msf{NYBR1sec24}	~~~~~~~	~~~~~~~	~~~~~~	~~~~~~	~~~~~~
NYBR1list2.msf{NY-BR-1} NYBR1list2.msf{NYBR1sec25} NYBR1list2.msf{NYBR1sec24}	~~~~~~	hqeacanili	~~~~~~~	~~~~~~~	~~~~~~~
NYBR1list2.msf{NY-BR-1} NYBR1list2.msf{NYBR1sec25} NYBR1list2.msf{NYBR1sec24}	~~~~~~	vhnkasltpl	~~~~~~~	~~~~~~~	~~~~~~~~~
NYBR1list2.msf{NY-BR-1} NYBR1list2.msf{NYBR1sec25} NYBR1list2.msf{NYBR1sec24}	~~~~~~~	sseivgmllq	~~~~~~~	~~~~~~	~~~~~~~
NYBR1list2.msf{NY-BR-1} NYBR1list2.msf{NYBR1sec25} NYBR1list2.msf{NYBR1sec24}	~~~~~~~	nhqntnpegt	~~~~~~~	~~~~~~	~~~~~~
NYBR1list2.msf{NY-BR-1} NYBR1list2.msf{NYBR1sec25} NYBR1list2.msf{NYBR1sec24}	~~~~~~~	aeslvektpd	~~~~~~	~~~~~~~	~~~~~~
NYBR1list2.msf{NY-BR-1} NYBR1list2.msf{NYBR1sec25} NYBR1list2.msf{NYBR1sec24}	~~~~~~~	etsekftwpa	~~~~~~~	~~~~~	~~~~~~~
NYBR1list2.msf{NY-BR-1} NYBR1list2.msf{NYBR1sec25} NYBR1list2.msf{NYBR1sec24}	~~~~~~~	iawekketpv	~~~~~~~	~~~~~~~	~~~~~~
NYBR1list2.msf{NY-BR-1} NYBR1list2.msf{NYBR1sec25} NYBR1list2.msf{NYBR1sec24}	~~~~~~~	rfpseskqee	~~~~~~	~~~~~~~	~~~~~~
NYBR1list2.msf{NY-BR-1} NYBR1list2.msf{NYBR1sec25} NYBR1list2.msf{NYBR1sec24}	~~~~~~~~	pkkpsafkpa	~~~~~~~		~~~~~~~
NYBR1list2.msf{NY-BR-1} NYBR1list2.msf{NYBR1sec25} NYBR1list2.msf{NYBR1sec24}	~~~~~~~	dseslcetvs	~~~~~~	~~~~~~	~~~~~~
NYBR1list2.msf{NY-BR-1} NYBR1list2.msf{NYBR1sec25} NYBR1list2.msf{NYBR1sec24}	~~~~~~~	siptkalelk	~~~~~~~	~~~~~~~	~~~~~~~
NYBR1list2.msf{NY-BR-1} NYBR1list2.msf{NYBR1sec25} NYBR1list2.msf{NYBR1sec24}	~~~~~~	ADEILPSESK ADEILPSESK	~~~~~~	~~~~~~~~	~~~~~~
NYBR1list2.msf{NY-BR-1} NYBR1list2.msf{NYBR1sec25} NYBR1list2.msf{NYBR1sec24}	~~~~~~	LEGSPVKDGL ~~~~~~ LEGSPVKDGL	~~~~~~	~~~~~~	~~~~~~
NYBR1list2.msf(NY-BR-1) NYBR1list2.msf(NYBR1sec25)	701 KPSAFEPAIE	MQKSVPNKAL	ELKNEQTLRA	DEILPSESKQ	750 KDYEESSWDS

NYBR1list2.msf{NYBR1sec24}	KPSAFEPAIE	MQKSVPNKAL	ELKNEQTLRA	DEILPSESKQ	KDYEESSWDS
NYBR1list2.msf{NY-BR-1} NYBR1list2.msf{NYBR1sec25}	751 ESLCETVSQK	DVCLPKATHQ	KEIDKINGKL	EESPDNDGFL	800 KAPCRMKVSI
NYBR1list2.msf(NYBR1sec24)	ESLCETVSQK	DVCLPKATHQ	KEIDKINGKL	EESPDNDGFL	KAPCRMKVSI
NYBR1list2.msf{NY-BR-1} NYBR1list2.msf{NYBR1sec25}			PSAFEPAIEM		
NYBR1list2.msf{NYBR1sec24}			PSAFEPAIEM		
NYBR1list2.msf(NY-BR-1) NYBR1list2.msf(NYBR1sec25)	851 QMFPSESKQK	kveenswdse	SLRETVSQKD	VCVPKATHQK	900 EMDKISGKLE
NYBR11ist2.msf(NYBR1sec24)	QMFPSESKQK	nveenswdse	SLRETVSQKD	VCVPKATHQK	EMDKISGKLE
NYBR1list2.msf{NY-BR-1} NYBR1list2.msf{NYBR1sec25}			LQKDHCEQrT		
NYBR1list2.msf(NYBR1sec24)			LQKDHCEQcT		
NYBR1list2.msf{NY-BR-1} NYBR1list2.msf{NYBR1sec25}			VRltlngeee		
NYBR11ist2.msf{NYBR1sec24}			VRfltlmkmk		
NYBR1list2.msf{NY-BR-1} NYBR1list2.msf{NYBR1sec25} NYBR1list2.msf{NYBR1sec24}			dielksvesn		
NYBR1list2.msf{NY-BR-1} NYBR1list2.msf{NYBR1sec25} NYBR1list2.msf{NYBR1sec24}			EKENKYFEDI EKENKYFEDI		
NYBR1list2.msf{NY-BR-1} NYBR1list2.msf{NYBR1sec25} NYBR1list2.msf{NYBR1sec24}			MLTSKLKEKQ MLTSKLKEKQ		
NYBR1list2.msf{NY-BR-1} NYBR1list2.msf{NYBR1sec25} NYBR1list2.msf{NYBR1sec24}			GDACLQRKMN GDACLQRKMN		
NYBR1list2.msf{NY-BR-1} NYBR1list2.msf{NYBR1sec25} NYBR1list2.msf{NYBR1sec24}			NTLVSEHAQR NTLVSEHAQR		
NYBR1list2.msf{NY-BR-1} NYBR1list2.msf{NYBR1sec25} NYBR1list2.msf{NYBR1sec24}	DNVNKHTEQQ	ESLDQKLFQL	QSKNMWLQQQ QSKNMWLQQQ	LVHAHKKADN	KSKITIDIHF
NYBR1list2.msf{NY-BR-1} NYBR1list2.msf{NYBR1sec25} NYBR1list2.msf{NYBR1sec24}	LERKMQHHLL	KEKNEEIFNY	NNHLKNRIYQ NNHLKNRIYQ	YEKEKAETEN	S S